

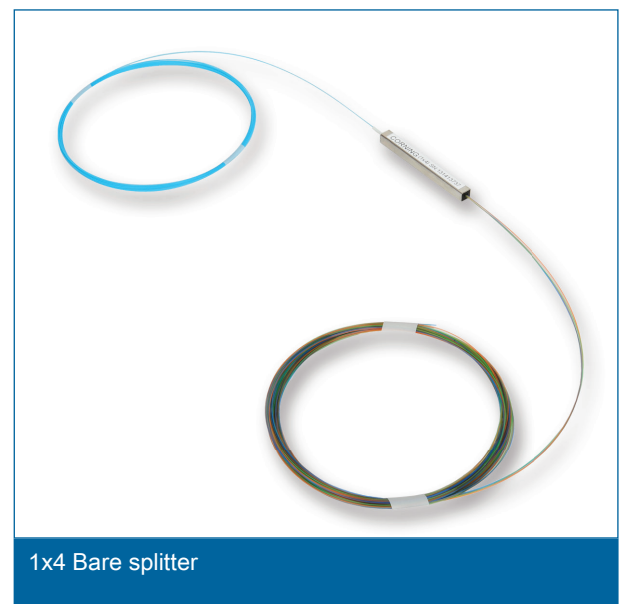
# Premium Optical Splitter Devices

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## Features

- All states of polarization
- Operating temperature range: -40°C to +85°C
- Operating relative humidity: 5% RH to 85% RH
- Wavelength range: 1260 nm to 1650 nm
- Maximum operating optical power: 23 dBm or 200 mW from 1400 nm to 1625 nm

Corning Cable Systems offers a wide variety of premium performance optical splitters, suitable for indoor or outdoor use and optimum for FTTH applications. A full range of 1xN and 2xN splitters is available allowing higher network design flexibility. All splitters are delivered with Corning's low bend loss LBL® optical fibre compliant with ITU G.657.A2 standard. Qualifications are performed according to Telcordia's GR1209 and 1221 specifications for uncontrolled environmental condition. Particularly, the specifications are met under the following operating condition:



# Premium Optical Splitter Devices



## Specifications

### Optical Performance 1xN Splitters

Splitter Ratio	Splitter Ratio	Max. IL (dB)	Max. Uniformity (dB)	Max. POL (dB)	Min. RL (dB)	Min. Directivity (dB)	Operating Wavelength (nm)
1x64	PLC	20.0	1.8	0.4	55	55	1260 to 1360 1480 to 1625
1x32	PLC	16.7	1.5	0.3			
1x16	PLC	13.5	1.1	0.3			
1x8	PLC	10.4	1.0	0.2			
1x4	PLC	7.0	0.8	0.2			
1x2	PLC	3.7	0.6	0.2			

\*Over the wavelength range from 1625 to 1660 nm

### Optical Performance 2xN Splitters

Splitter Ratio	Splitter Ratio	Max. IL (dB)	Max. Uniformity (dB)	Max. POL (dB)	Min. RL (dB)	Min. Directivity (dB)	Operating Wavelength (nm)
2x32	PLC	17.5	2.5	0.4	55	55	1260 to 1360 1480 to 1650
2x16	PLC	14.5	2.3	0.4			
2x8	PLC	11.2	2.2	0.3			
2x2	PLC	3.5	1.0	0.2			

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## Optical Parameters

### Features

- Maximum Insertion Loss  
Maximum insertion loss value for the device over entire operating wavelength and temperature range and at all states of polarisation
- Maximum Uniformity  
The maximum difference between the leg of the coupler with the highest insertion loss and the leg with the lowest insertion loss
- PDL (Polarization Dependent Loss)  
Variation of the coupler's insertion loss with varying states of polarization of the signal
- Minimum Return Loss (RL)  
Ratio of the optical power launched into an input port, to the optical power returning at the same port
- Minimum Directivity  
Ratio of the optical power launched into an input port, to the optical power returning at any other input port

### Maximum Splitter Dimensions

Splitter Ratio	Length (mm)	Width (mm)	Height (mm)
1x64	60	12	4
1x32	50	7	4
1x16	50	7	4
1x8	40	4	4
1x4	40	4	4
1x2	60	7	4
2x32	60	7	4
2x16	60	7	4
2x8	50	4	4
2x4	50	4	4
2x2	60	12	4

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## Ordering Information

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**1**

**1** Select splitter configuration.

- 102 = 1x2 Splitter
- 104 = 1x4 Splitter
- 108 = 1x8 Splitter
- 116 = 1x16 Splitter
- 132 = 1x32 Splitter
- 164 = 1x64 Splitter
- 202 = 2x2 Splitter
- 204 = 2x4 Splitter
- 208 = 2x8 Splitter
- 216 = 2x16 Splitter
- 232 = 2x32 Splitter
- 264 = 2x64 Splitter



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